18. The polymerized liposome of claim 12 in which the antigen is in the interior space of the polymerized liposome and the adjuvant is in the bilayer of the polymerized liposome.

19. The polymerized liposome of claim 1 in which the antigen and the adjuvant are in the bilayer of the polymerized liposome.

20. The polymerized liposome of claim 12 in which the antigen and the adjuvant are in the bilayer of the polymerized liposome.

21. The polymerized liposome of claim 1 in which the antigen is in the bilayer of the polymerized liposome and the adjuvant is in the interior space of the polymerized lipsome.

22. The polymerized liposome of claim 12 in which the antigen is in the bilayer of the polymerized liposome and the adjuvant is in the interior space of the polymerized lipsome.

23. The polymerized liposome of claim 1, 2, 8 or 9 in which the antigen is hydrophobic.

24. The polymerized liposome of claim 1, 2, 8 or 9 in which the phospholipid is DODPC.

25. The polymerized liposome of claim 1, 2, 8 or 9 having a degree of crosslinking between 30 and 100 percent.

26. The method of claim 3 in which the antigen and the adjuvant are in the interior space of the polymerized liposome.

27. The method of claim 13 in which the antigen and the adjuvant are in the interior space of the polymerized liposome.

28. The method of claim 3 in which the antigen is in the interior space of the polymerized liposome and the adjuvant is in the bilayer of the polymerized liposome.

29. The method of claim 13 in which the antigen is in the interior space of the polymerized liposome and the adjuvant is in the bilayer of the polymerized liposome.

30. The method of claim 3 in which the antigen and the adjuvant are in the bilayer of the polymerized liposome.

31. The method of claim 13 in which the antigen and the adjuvant are in the bilayer of the polymerized liposome.

32. The method of claim 3 in which the antigen is in the bilayer of the polymerized liposome and the adjuvant is in the interior space of the polymerized liposome.

33. The method of claim 13 in which the antigen is in the bilayer of the polymerized liposome and the adjuvant is in the interior space of the polymerized liposome.

34. The method of claim 3, 4, 10 or 11 in which the antigen is hydrophobic.

35. The method of claim 3, 4, 10 or 11, wherein the antigen is an influenza virus antigen, an HTLV antigen, a rhinovirus antigen, a herpes virus antigen, or Epstein-Barr virus antigen.

36. The method of claim 3, 4, 10 or 11 in which the phospholipid is DODPC.

37. The method of claim 3, 4, 10 or 11 in which the polymerized liposomes have a degree of crosslinking between 30 and 100 percent.

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